

Patent Claims

1. Method for isolating essentially pure group 1, 2, 3, 10 and 13 grass allergens, characterised in that an aqueous extract of Graminae pollen is prepared, and the soluble constituents are subjected to hydrophobic interaction chromatography, a gel filtration step and, if desired, cation exchanger chromatography.
2. Method according to Claim 1, characterised in that pollen of the species *Phleum pratense*, *Lolium perenne*, *Dactylis glomerata*, *Festuca pratensis*, *Holcus lanatus*, *Poa pratensis*, *Secale cereale* are used for the extraction.
- ~~3. Method according to Claim 1 or 2, characterised in that the extraction is carried out by means of tris/HCl-buffered aqueous solution.~~
4. Method according to one of Claims 1 to 3, characterised in that, in a first step, the group 1, 2, 3, 10 and 13 grass allergens are separated off from other constituents by means of hydrophobic interaction chromatography.
5. Method according to Claim 4, characterised in that the group 1 and 13 allergens are obtained in separate fractions by a subsequent gel filtration step and are separated off from the group 2, 3 and 10 allergens.
6. Method according to Claim 5, characterised in that the group 2, 3 and 10 allergens obtained after the gel filtration step are separated from one another by subsequent cation exchange chromatography.
- ~~7. Method for the in-vivo and in-vitro diagnosis of pollen allergies using the allergens obtained in accordance with Claims 1 to 6.~~
8. Pharmaceutical preparation comprising one or more allergens obtained in accordance with one of Claims 1 to 6 and corresponding assistants and excipients.